

Daniel Flores-Agreda

Curriculum Vitæ

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Personal Information

Full Name **Daniel Antonio Flores Agreda.**

Birth Date **November 30th, 1984.**

Nationality **Swiss and Bolivian.**

Education

2012–2017 **PhD in Statistics**, *Geneva School of Economics and Management*, Université de Genève, Geneva, Switzerland.

2009–2012 **Master of Science in Statistics**, *Faculté de Sciences Economiques et Sociales*, Université de Genève.

2005–2009 **Bachelor of Science in Economics**, *Faculté de Sciences Economiques et Sociales*, Université de Genève.

Employment

Feb 2019 **School of Public Health and Preventive Medicine**, *Monash University*,
Present Australia.
Research Fellow (Biostatistics)

Feb 2018 **Faculty of Business and Economics**, *Université de Lausanne*, Switzerland.

Jul 2019 Junior Lecturer.

Dec 2011 **Research Center for Statistics**, *Université de Genève*, Switzerland.

Jul 2017 Teaching and Research Assistant.

Sep 2012 **Faculté de Sciences Economiques et Sociales**, *Université de Genève*, Switzerland.

Aug 2015 Information Technology Collaborator.

Sep 2010 **Faculté de Sciences Economiques et Sociales**, *Université de Genève*, Switzerland.

Dec 2010 Part-time Tutor in Statistics for Undergraduate Students.

Publications

Papers

2019 ***Bootstrap Estimation of Uncertainty in Prediction for Generalized Linear Mixed Models***, Joint work with Eva Cantoni, *Computational Statistics and Data Analysis*, Volume 130, 2019.

<https://doi.org/10.1016/j.csda.2018.08.006>.

2020 ***Bootstrapping Generalized Linear Mixed Models via a Weighted Laplace Approximation***, Joint Work with Eva Cantoni, Under Review.

Working Papers and Other Manuscripts

- 2020 ***A Flexible Tool for Inference of Accelerated Failure Time Models with Clustered Data***, Joint Work with Rory Wolfe, Eva Cantoni and Stephane Heritier, Working Paper.
- 2017 ***On the Inference of Random Effects in Generalized Linear Mixed Models***, Under the supervision of Prof. Eva Cantoni, PhD Thesis.

Talks

- Title ***Bootstrap-based Uncertainty Measures for Empirical Best Predictors in Generalized Linear Mixed Models***, Joint work with Prof. Eva Cantoni.
- 21st International Conference on Computational Statistics (COMPSTAT 2014), Geneva, August 2014.
 - XIII Latin American Congress of Probability and Mathematical Statistics (XIII CLAPEM), Cartagena de Indias, Colombia, September 2014.
- Title ***On the Estimation of Uncertainty in Prediction for GLMM via Bootstrap Methods***, Joint work with Prof. Eva Cantoni.
- 22nd International Conference on Computational Statistics (COMPSTAT 2016), Oviedo, Spain, August 2016.
- Title ***Bootstrapping Generalized Linear Mixed Models***, Joint work with Prof. Eva Cantoni.
- Séminaire de l'Institut de Statistique, Université de Neuchâtel, May 2016.
 - 6th Young Researcher Conference YRC, Lausanne, June 2016.
- Title ***Bootstrapping Clustered Data via a Weighted Laplace Approximation***, Joint work with Prof. Eva Cantoni, Prof. Rory Wolf and Assoc. Prof Stéphane Heritier.
- XV Latin American Congress of Probability and Mathematical Statistics (XV CLAPEM), Merida, Mexico, December 2019.
 - 12th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2019), London, United Kingdom, December 2019.

Research Interests

Bootstrapping Mixed Models

Inference for Random Effects in GLMM

Perturbation Bootstrap for Random Effect Selection via Lasso-type Methods

Accelerated Failure Time Models with Random Effects

Teaching Experience

Teaching Assistant

- 2012 - 2014 **Mathematics I**, BSc in International Relations.
- 2015 **Statistics II**, BSc in Economics.
- 2015 - 2016 **Statistics I**, BSc in Economics & Management.
- 2012-2013 **Microeconometrics**, MSc in Economics.
- 2014-2017 **Generalized Linear and Additive Models**, MSc in Statistics.
- 2016-2017 **Experimental Design**, MSc in Statistics & MSc in Economics.

Lecturer

- 2018 **Time Series and Forecasting**, MSc in Management, University of Lausanne.
- 2019 **Forecasting I**, MSc in Management, University of Lausanne.

Funds and Grants

- 2019 **Travel Grant**, *Victorian Centre for Biostatistics (ViCBiostat)*, 2420 AUD, Conference Attendance.
XV CLAPEM and CMStatistics 2019
- 2016 **Travel Grant**, *Société Académique de Genève*, 800 CHF, Conference Attendance.
22nd COMPSTAT, Oviedo, Spain.
- 2014 **Travel Grant**, *Société Académique de Genève*, 1400 CHF, Conference Attendance.
XIII CLAPEM, Cartagena de Indias, Colombia.
- 2005 - 2012 **Scholarship**, *Fondation Simon I. Patino*.
Full scholarship for studies in Switzerland (BSc. and MSc.) obtained after contest.

Languages

- Spanish Mother Tongue
- French Fluent (spoken, written)
- English Fluent (spoken, written)
- Italian Intermediate (spoken, written)
- German Intermediate (spoken, written)

Computer Skills

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|----------|--------------------------------|--------------|--|
| Analysis | R, S-Plus, SPSS, Stata, MATLAB | Programming | R, MATLAB, C++, Python |
| OS | Windows, OS X (macOS), Linux | Applications | MS Office, iWork, L ^A T _E X, RStudio |

Other Educational Programs

- 2003 - 2005 **Bachelor in Production Engineering**, *Universidad Privada Boliviana (UPB)*,
(Incomplete) Cochabamba, Bolivia.
Interrupted after receiving scholarship to pursue studies in Switzerland
- 2005 - 2006 **Preparation Year at the *Simon I. Patiño* Foundation**.
Courses of French and leveling in Sciences: Mathematics, Physics and Chemistry
- 2012 - 2017 **Various Courses**, *Faculty of Sciences*, Université de Genève.
- **Bachelor in Mathematics**: Analysis I, II III, Numerical Analysis
 - **Bachelor in Computer Science**: Data Mining

References

Prof. Eva Cantoni

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Prof. Valérie Chavez-Dumoulin

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